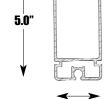


50' Wide System

Please read all assembly / installation instructions before the installation or removal of this product.



1100 Burch Dr., Evansville, IN 47725 Ph. 812-867-2421 • Fax. 812-867-0547 E-mail: tents@anchorinc.com • www.anchorinc.com



Quality, Craftsmanship and Service since 1892

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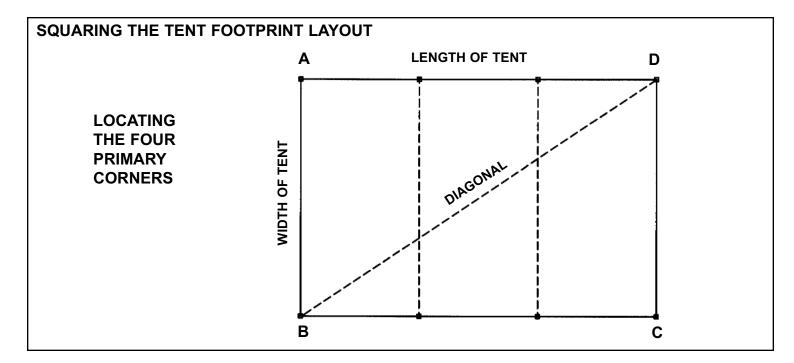
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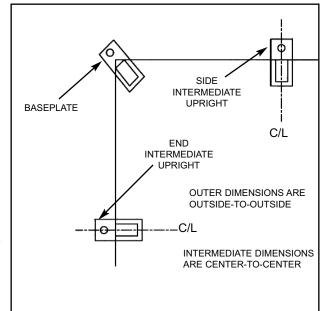
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DIRECTIONS FOR SQUARING THE TENT

- 1. USE A TAPE MEASURE TO MARK THE ENDS OF A LINE FOR ONE END (A TO B ABOVE) EQUAL TO THE EXACT WIDTH OF THE UNIT.
- 2. HOLD THE "0" END OF ONE TAPE AT POINT "A" AND THE "0" END OF ANOTHER TAPE AT POINT "R"
- 3. EXTEND THE FIRST TAPE ALONG ONE SIDE OF THE UNIT TO A MEASUREMENT EQUAL TO THE EXACT LENGTH OF THE TENT.
- 4. CONSULT THE CHART BELOW TO FIND THE DIAGONAL FOR THE TENT YOU ARE BUILDING.
- 5. EXTEND THE SECOND TAPE TO A MEASUREMENT EXACTLY EQUAL TO THIS DIAGONAL.
- BRING THE TWO TAPES TOGETHER SO THAT THE LENGTH MEASUREMENT OF ONE LIES DIRECTLY ON THE DIAGONAL MEASUREMENT OF THE OTHER. PULL THE TAPES TIGHT AND MARK THEIR INTERSECTION. THIS WILL LOCATE A FAR CORNER (POINT "D" ABOVE).
- 7. SWITCH TAPES SO THAT TAPE 1 (ABOVE) MEASURES THE DIAGONAL AND TAPE 2 (ABOVE) MEASURES THE LENGTH. THIS WILL LOCATE POINT "C" ABOVE.
- 8. WITH THE FOUR PRIMARY CORNERS LOCATED, LAY OUT BASEPLATES AND UPRIGHTS ACCORDING TO THE DIAGRAM TO THE RIGHT AND BEGIN ASSEMBLY, DOUBLE-CHECKING FROM TIME TO TIME TO MAKE SURE THE SQUARE FOOTPRINT IS BEING MAINTAINED.



| ONALS F | LS FOR SQUARING FOOTPRINT | | | | | | | | | LENGTH OF TENT | | | | | | | | | | |
|------------|---------------------------|-------|-------|-------|--------|------------|------------|------------|------------|----------------|------------|------------|------------|--------|---------------------|---------------------|---------------------|-------|-------|------------|
| FEET | 30 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 | 13 |
| 30 | 42-5 | 50-0 | 54-1 | 58-4 | 62-8 | 67-1 | 71-7 | 76-2 | 80-9 | 85-5 | 90-2 | 94-10 | 99-8 | 104-5 | 109-2 | 114-0 | 118-10 | 123-8 | 128-7 | 133 |
| 40 | N/A | 56-7 | N/A | 64-0 | 68-0 | 72-1 | 76-4 | 80-7 | 85-0 | 89-5 | 93-11 | 98-6 | 103-1 | 107-8 | 112-4 | 117-1 | 121-9 | 126-6 | 131-3 | 136 |
| 50 EN | N/A | N/A | N/A | 70-9 | 74-4 | 78-1 | 82-0 | 86-0 | 90-2 | 94-4 | 98-7 | 102-11 | 107-4 | 111-10 | 116-4 | 120-10 | 125-5 | 130-0 | 134-8 | 139 |
| | | | | | | | A C C L | | 110)4/ | | | | -C /TC | | DEST | INCL | | | | |
| <u> Б</u> | 135 | 140 | 145 | 150 | 155 | DI. | AGON | NAL S | 175 | N IN F | 185 | INCHE | 195 | 200 | REST | INCH | 215 | 220 | 225 | 23 |
| # <u> </u> | | | | | | 160 | 165 | 170 | 175 | 180 | 185 | 190 | 195 | | 205 | 210 | 215 | | | 2 3 |
| MET FEET | 138-4 | 143-2 | 148-1 | 153-0 | 157-11 | 160 | 165 | 170 | 175 | 180 | 185 | 190 | 195 | 200 | 205 207-2 | 210 212-2 | 215 217-1 | 222-0 | 227-0 | 231 |

50' NAVI-TRAC COMPONENT LIST

3-T

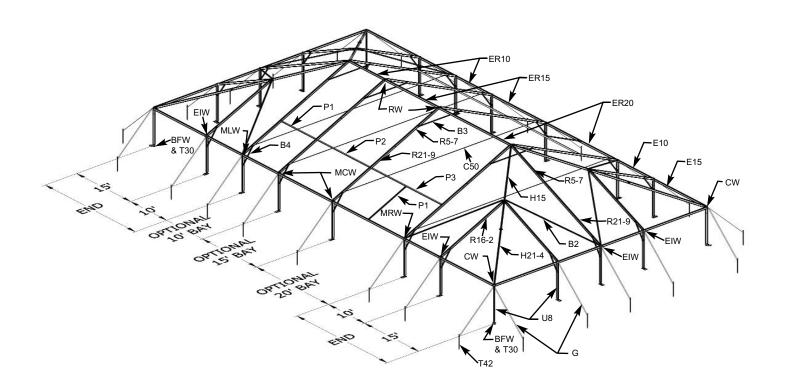
| LETTER 50 NAVI-TRAC FRAME | | | | | | | | | |
|---------------------------|---|----------------------------------|-------|-----------|----------|-----------|---------|---------|---------|
| ON | | OTHER I.D. | 50 | 10' MID | 10' MID | 15' MID | 15' MID | 20' MID | 20' MID |
| DWG. | COMPONENT DESCRIPTION | CODES | X 50 | START | EXT | START | EXT | START | EXT |
| 21101 | TOP EXTRUSIONS WITH CHANNELS | 1 | 7, 00 | 01741 | | 01741 | | 01741 | |
| E10 | EAVE - FEMALE 10' | | 8 | | | | | | |
| E15 | EAVE - FEMALE 15' | | 8 | | | | | | |
| ER10 | EAVE/RIDGE - DROP-IN 10' | | - 0 | 3 | 3 | | | | |
| ER15 | EAVE/RIDGE - DROP-IN 15' | | | 3 | 3 | 3 | 3 | | |
| ER20 | EAVE/RIDGE - DROP-IN 20' | | | | | 3 | 3 | 3 | 3 |
| R21-9 | RAFTER LOWER SPLICE, 21-9 | | 4 | 2 | 2 | 2 | 2 | 2 | 2 |
| R5-7 | RAFTER UPPER SPLICE, 5-7 w/ Bolt * | | 4 | 2 | 2 | 2 | 2 | 2 | 2 |
| R16-2 | RAFTER, INTERMEDIATE 16-2 | | 8 | | | | | | |
| H21-4 | HIP LOWER SPLICE (2-PC) 21-4 (50') | | 4 | | | | | | |
| H15 | HIP UPPER SPLICE (2-PC) 15' (50') W/ Bolt * | | 4 | | | | | | |
| 1110 | BRACES: | | | | | | | | |
| B2 | HIP BRACE, 18-9 W/ LANYARDS | | 8 | | | | | | |
| B3 | BRACE, RIDGE 7' | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| B4 | BRACE, UPRIGHTS 5' | | 12 | 2 | 2 | 2 | 2 | 2 | 2 |
| D-T | PURLINS: | | | | | | | | |
| P1 | PURLIN 10' | + | | 2 | 2 | | | 2 | 2 |
| P2 | PURLIN 15' | | | | | 2 | 2 | | |
| P3 | PURLIN 20' | | | | | | | 2 | 2 |
| | UPRIGHTS: | | | | | | | | |
| U8 | UPRIGHT 8' | | 16 | 2 | 2 | 2 | 2 | 2 | 2 |
| | WELDMENTS AND PLATES | | | | | | | | |
| CW | CORNER WELDMENTS | | 4 | | | | | | |
| EIW | END INTERMEDIATE. WELDMENTS | | 12 | | | | | | |
| MLW | MID LEFT WELDMENTS | | | 2 | | 2 | | 2 | |
| MRW | MID RIGHT WELDMENTS | | | 2 | | 2 | | 2 | |
| MCW | MID CENTER WELDMENTS | | | | 2 | | 2 | | 2 |
| RW | RIDGE WELDMENT | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| BFW | ADJ. BASE PLATESW/INSERTS (FIXED) | STAMPED "END" | 16 | 2 | - | 2 | | 2 | |
| BHW | ADJ. BASE PLATESW/INSERTS (HINGED) | | | | 2 | | 2 | | 2 |
| TFW | TOP FITTING (END RAFTER) W/HDWR | | 2 | | | | | | |
| EFW | END FITTING (HIP/ INT. RAFTER) W/HDWR | | 8 | | | | | | |
| * | LANYARD ASSY. W/ HAIR PIN COTTER | | 16 | | | | | | |
| | STAKES, CABLES, PINS & WEB GUYS | İ | | | | | | | |
| N * | GRAVITY PINS, 1/2" x 3 3/4" | | 52 | 12 | 12 | 12 | 12 | 12 | 12 |
| G | NAVI-TRAC WEB GUYS | | 20 | 2 | 2 | 2 | 2 | 2 | 2 |
| T42 | 1 1/8 X 42" STEEL STAKES | | 20 | 2 | 2 | 2 | 2 | 2 | 2 |
| T30 | 1" x 30" STEEL STAKES | | 16 | 2 | 2 | 2 | 2 | 2 | 2 |
| C50 | CROSS CABLE FOR 50' | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| T42 | 1 1/8 X 42" STEEL STAKES | | 20 | 2 | 2 | 2 | 2 | 2 | 2 |
| T30 | 1" x 30" STEEL STAKES | | 16 | 2 | 2 | 2 | 2 | 2 | 2 |
| C50 | CROSS CABLE FOR 50' | GREEN | 11 | 1 | 1 | 1 | 1 | 1 | 1 |
| X-1 X-2 | X-CABLES FOR 10' MID BAY X-CABLES FOR 15' MID BAY | RED NAV-BAY 10 RED NAV-BAY 15 | INS | JALL AS S | PECIFIED | FOR UNITS | OVER 10 | D' LONG | |
| X-3 | X-CABLES FOR 20' MID BAY | RED NAV-BAY 20 | INS | TALL AS S | PECIFIED | FOR UNITS | OVER 10 | O' LONG | |
| | INSTALLATION TOOLS: | | 1 | | | | | | |
| | LONG LIFTING CRADLE | | [1] | | | | | | |
| | SHORT LIFTING CRADLE | | [1] | | | | | | |
| | ADJUSTABLE GROUND LINE SPACER | | [1] | | | | | | |
| | FABRIC PULL ROPES | | [2] | | | | | | |
| | FABRIC FEEDER ROLLERS | ļ | [2] | | | | | | |
| | DROP CLOTH | ļ | [1] | | | | | | |
| | FABRIC SACK | | [1] | | | | | | |

HARDWARE LOCATION CHART

3-B

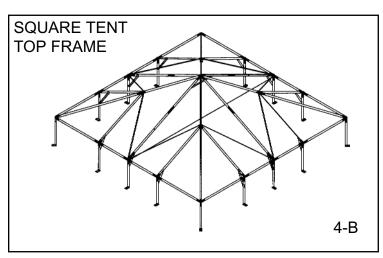
| FASTENING HARDWARE & WHERE IT'S USED | 30 X 30 | 30 MID | 40 X 40 | 40' MID | 50 X 50 | 50' MID | CARTON # |
|---|-----------|-----------|------------|-----------|-----------|---------|------------------|
| GRAVITY PINS, 1/2" - | | | | | | | |
| 2 ea. End of Knee & Ridge Brace - | 0 | 0 | 20 | 12 | 52 | 12 | No. 11 |
| 1 ea. End of Cross Cable | | ***Includ | ed with Cr | oss Cable | Carton*** | | |
| (some cartons could have greater quantities than are | required) | | | | | | |
| BOLT 1/2" X 3" W/NYLOCK NUT | | | | | | | |
| Splices, 2 pc. Hip or Rafter - (attached in splice insert) | 0 | 0 | 4 | 0 | 8 | 2 | w/splice |
| Top Fitting F/End Rafter - | 2 | 0 | 2 | 0 | 2 | 0 | No. 1 |
| End Fittings F/Hip/Int Rafter - | 8 | 0 | 8 | 0 | 16 | 0 | No. 1 or 6 |
| Uprights - Attach Adjustable Insert | 8 | 2 | 8 | 2 | 16 | 2 | No. 1, 2, 4 or 5 |
| LANYARD Assembly with Hair Pin Cotter | | | | | | | |
| Ends of Hips | 8 | 0 | 8 | 0 | 8 | 0 | No. 1 |
| Top End of Int Rafter | 0 | 0 | 0 | 0 | 8 | 0 | No. 6 |
| Ends of Braces (Installed at factory) | 0 | 0 | 16 | 0 | 16 | 0 | W/Braces |

50' Navi-Trac Frame Terminology



INTRODUCTION:

The NAVI-TRAC frame configuration is based on the hip roofed square tent shown at right. Hip bars connect corners to the peak, and rafters connect eave bars to the peak. The square can be extended into a rectangle by adding 10', 15' or 20' bays made up of rafters and the appropriate ridge/eave bars (see above). In the **square tent**, female eave bars and rafters are connected to eave weldments by rigid slip joints. Hip bars and eave/ridge bars and rafters in the middle bays use easy to install drop-in fittings.



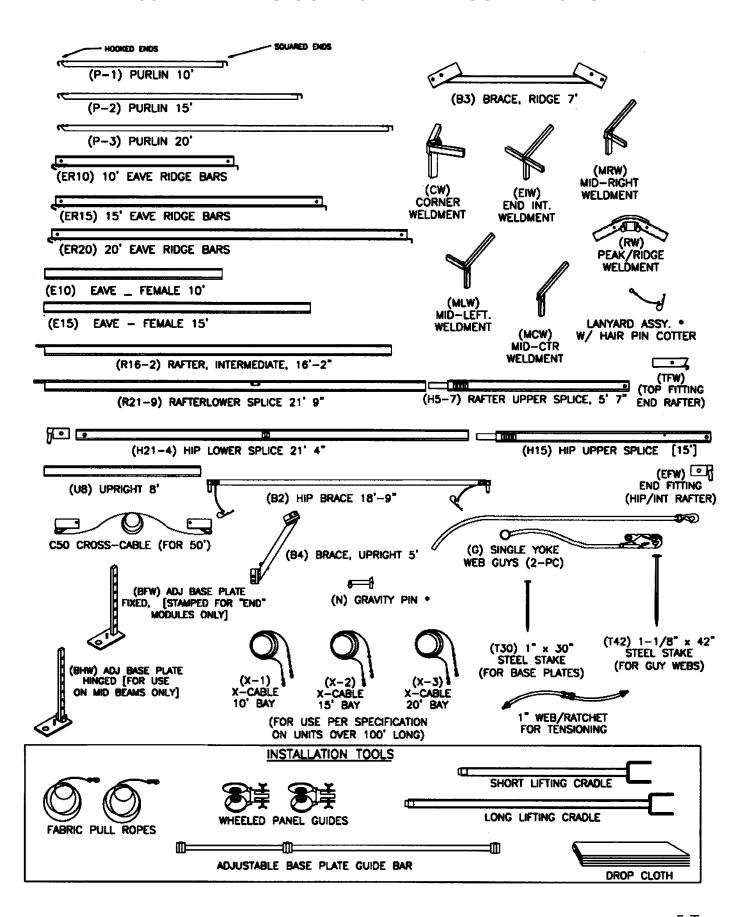
The NAVI-TRAC frame is made up of extruded aluminum members joined by weldments such as corner weldments, ridge weldments, eave weldments, etc. The aluminum frame members themselves are extruded with channels into which the NAVI-TRAC fabric "kedar" is fed.

The first bay added to the square tent shape is a "**starter**" bay. This starter bay allows a slip fit connection to the square tent eaves on one end of the weldment and a drop-in connection for the new starter bay eaves on the other end of the weldment.

Subsequent bays added to the unit are "**extension**" bays. Extension bays allow drop-in connections on both ends of the eave weldments.

The chart on page 1 lists components needed for the 50' x 50' square tent, the first (starter) extension, and for each additional extension to be added to the unit. Note: starter mids or bays and extension mids are available in options of 10', 15' or 20' increments of length, as shown.

50' NAVI-TRAC COMPONENT ILLUSTRATIONS

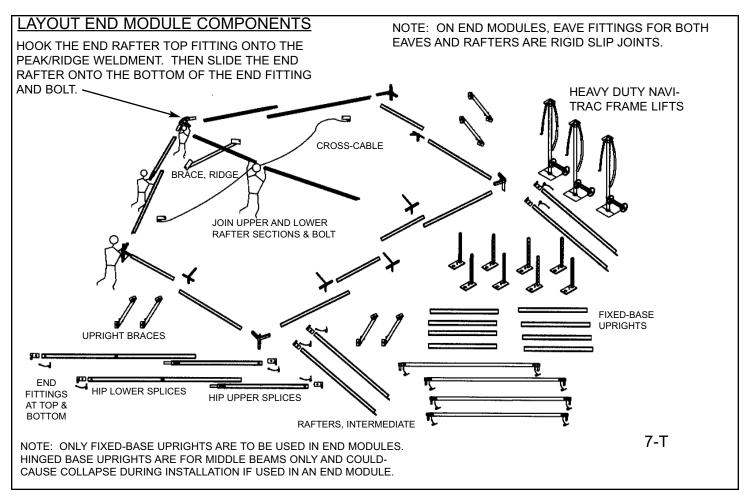


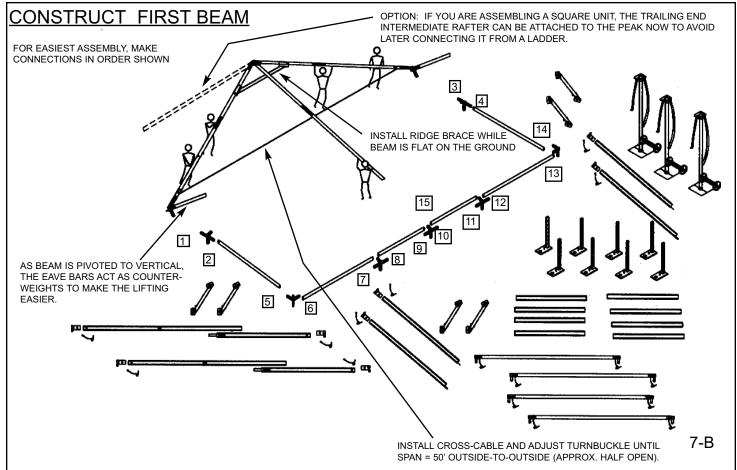
50' NAVI-TRAC INSTALLATION SAFETY GUIDELINES

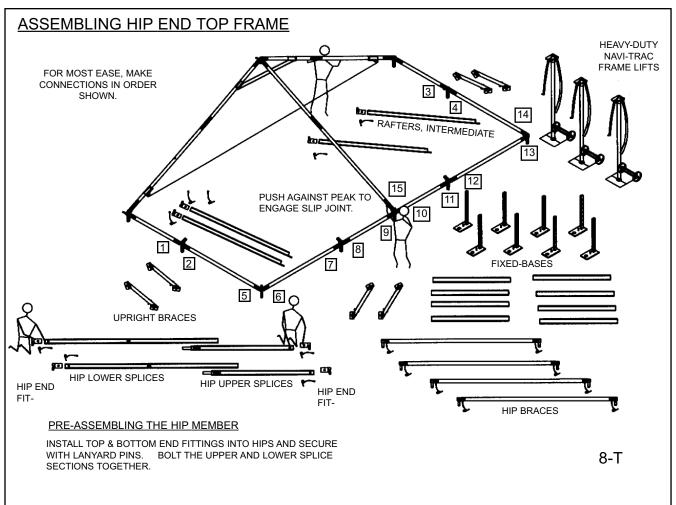
Your installation techniques will evolve to fit the needs of your clients, the experience level of your crews, the nature of other tentage on-site, and the equipment that you have most readily available. We encourage you to begin with a crew of (4) workers and only reduce this number as your experience level allows you to do so <u>safely</u>. Whatever techniques you adapt for your crews, we encourage you to keep safety utmost in mind.

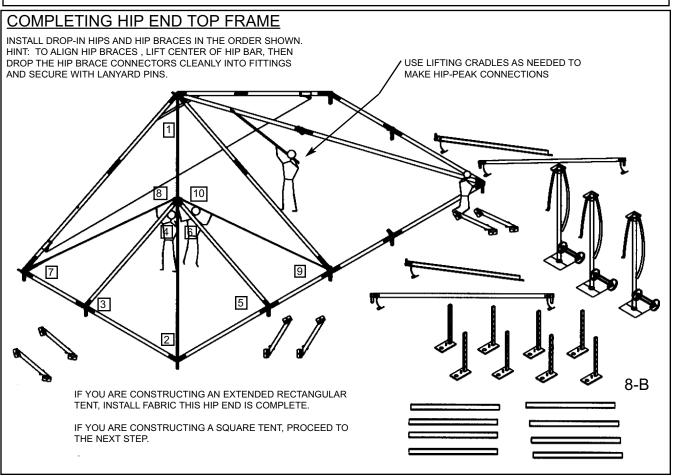
Please read through this assembly manual completely before beginning your installation. Be sure the proper equipment, crew and safety precautions are in place. We hope that you enjoy the design features of the NAVI-TRAC each time the unit is installed.

- 1. It is recommended that workers wear safety shoes and hard-hats on site.
- 2. When moving beam sections by hand, use proper lifting techniques to protect the back, and avoid pinching fingers while making hardware connections.
- 3. Never permit bystanders or uninvolved to stand or walk even briefly in the falling path of a beam as it is being raised or lowered.
- 4. Be aware to avoid contact of beams with any overhead power lines near the site.
- 5. When anchoring the structure, avoid all underground power lines and gas lines or other utility easements. Local authorities should be able to map the location of these obstacles.
- 6. Keep site clear of debris to avoid tripping, especially while carrying components or bundles of fabric.
- 7. Do not drag bundles of fabric on concrete, asphalt, or ground as this can cause damage to the fabric from abrasion through the bag.
- 8. When lifting the NAVI-TRAC frame, be sure to use the heavy duty NAVI-TRAC frame lift. The standard Anchor frame lift was not designed for the weight of the NAVI-TRAC frame. When lifting each side of an end section, (2) NAVI-TRAC frame lifts should be used.
- 9. Before pivoting beams to vertical, clear the area of items that could cause tripping or slipping.
- 10. Before pivoting middle beam, install the cross-cable for safety bracing. On the 50' NAVI-TRAC, the cross-cable should be left in place as an essential part of the structure.
- 11. NOTE: Hinged baseplates should be used only on middle beams supplied as "extensions" and not as a component of an end module. End module plates should all be fixed, and end module eave connections should be rigid, slip joints. Use of hinged baseplates in the end module could cause the end module to collapse during installation.
- 12. When using ladders to make peak connections, be sure the ladder is tall enough that workers can reach the peak from a ladder step consistent with the safety recommendations for the ladder being used. On middle beams, secure the eaves before climbing the ladder to secure the peak.
- 13. For any NAVI-TRAC of 100 ft or more in length, the legs of one middle bay must be cross-cabled on both sides in an "X" fashion for each 100 ft of length.
- 14. For proper loading and anchoring information, consult the appropriate NAVI-TRAC blueprint available from Anchor Industries Inc.
- 15. Before installing fabric, verify that all hip, brace, and rafter pins are seated into weldment fittings and secured by lanyard pins.
- 16. The installation method described herein requires coordination of tasks between workers. A safe installation is dependent on alertness and coordination.
- 17. Before lifting the top frame to install uprights, always guy out and stake at least both corners of the side or end being lifted. This will help maintain the intended footprint and will protect against uplift from the wind that could move or flip the tent, causing damage to the tent and/or severe injury to workers.



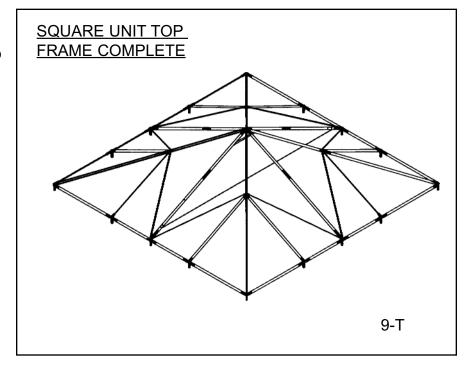


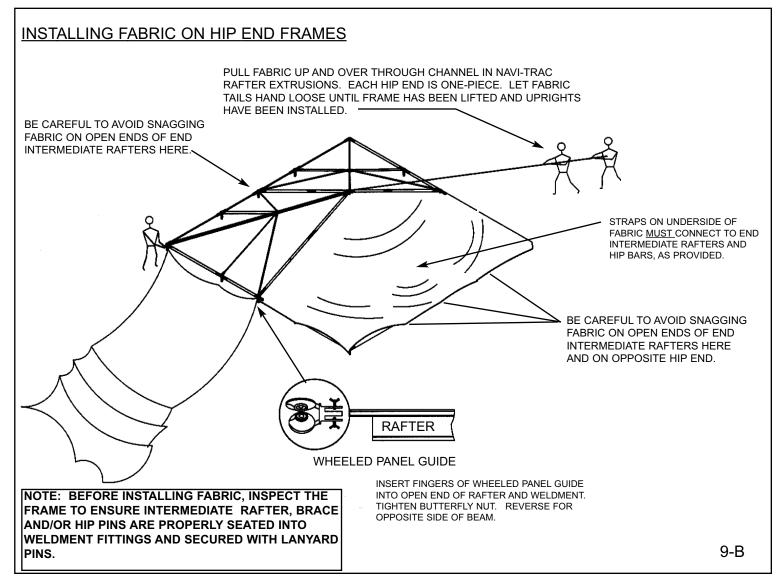


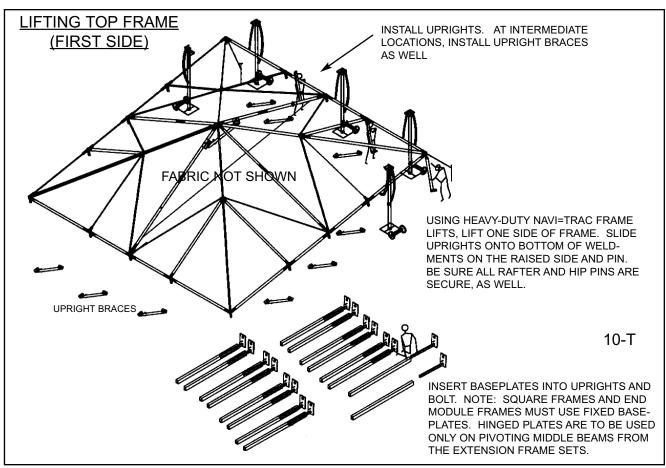


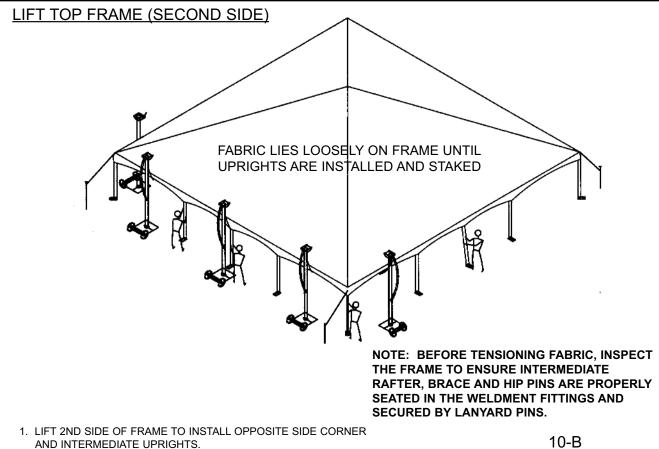
SUMMARY OF STEPS FOR COMPLETING THE SQUARE TENT

- 1. INSTALL OPPOSITE EAVES, RAFTERS, HIPS AND HIP BRACES TO COMPLETE SQUARE FRAME.
- USE PULL ROPES TO PULL TOP FABRIC KEDAR FOR EACH END UP AND OVER THROUGH THE CHANNELS ON EACH SIDE OF THE RAFTERS THAT ARE ALIGNED WITH THE RIDGE BRACE.
- LET FABRIC LAY LOOSELY ON TOP OF FRAME. SECURE WITH ROPES AS NEEDED AGAINST THE BREEZE.
- 4. USE HEAVY-DUTY NAVI-TRAC FRAME LIFTS TO LIFT FRAME ONE SIDE AT A TIME TO INSERT UPRIGHTS UNDER THE TOP FRAME.
- 5. INSTALL KNEE BRACES AT ALL INTERMEDIATE UPRIGHTS AS THEY ARE INSTALLED.
- 6. STAKE BASE PLATES WITH 30" STAKES
- USE WEB/RATCHETS TO TENSION CATENARY FABRIC ARCHES TO UPRIGHT LEGS.
- 8. GUY TENT OUT AND STAKE WITH 42" STAKES.







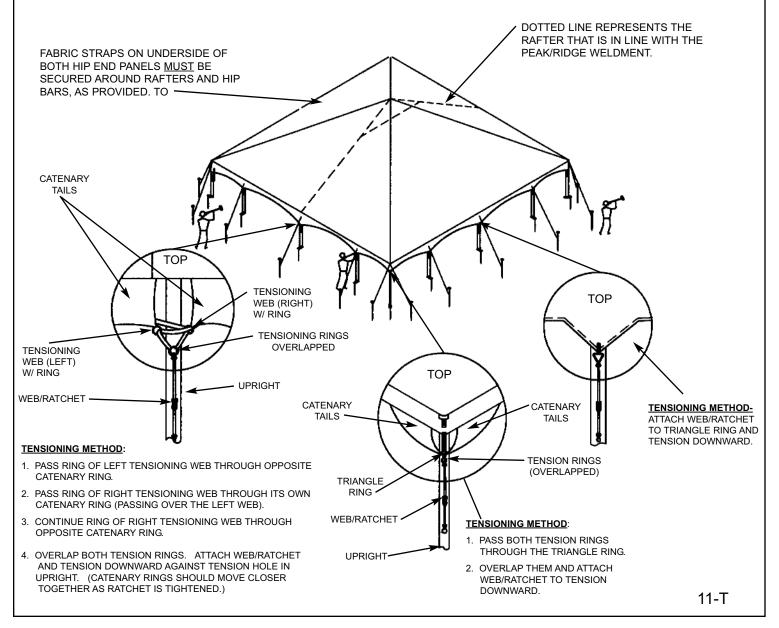


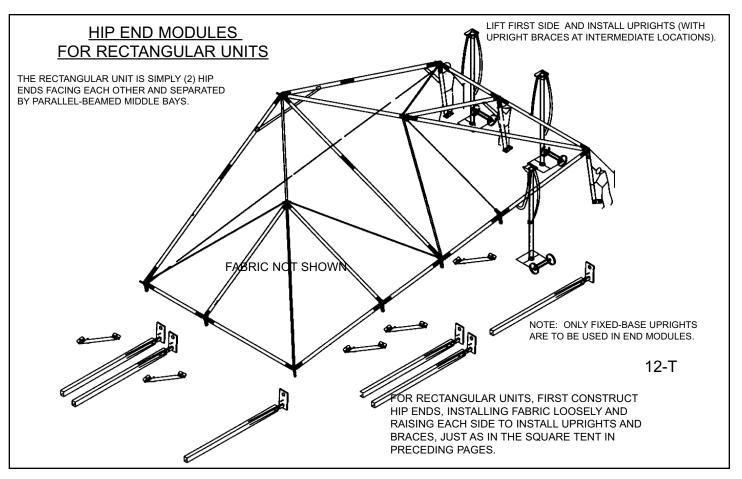
2. INSTALL UPRIGHT BRACES AT ALL INTERMEDIATE UPRIGHTS.

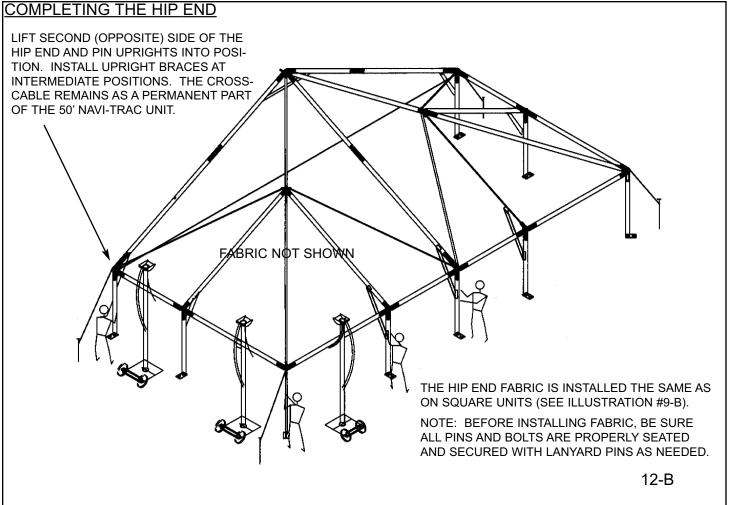
TENSIONING AND GUYING

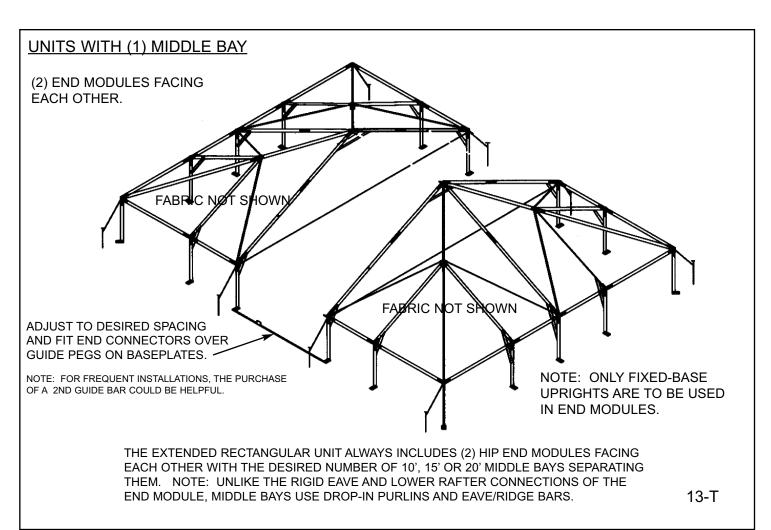
- 1. USE WEB/RATCHETS TO SECURE CATENARY ARCHES TO UPRIGHTS, STAKE BASEPLATES BEFORE TENSIONING WEBS.
- ATTACH GUY WEBS TO EAVE WELDMENTS AND STAKE OUT AT A 45 DEGREE ANGLE (DISTANCE OUT = HEIGHT OF UPRIGHT, USUALLY 8 FT. USE 42" STAKES PROVIDED.
- 3. AT DOUBLE-GUYED CORNERS, GUYS FORM A 90 DEGREE ANGLE.

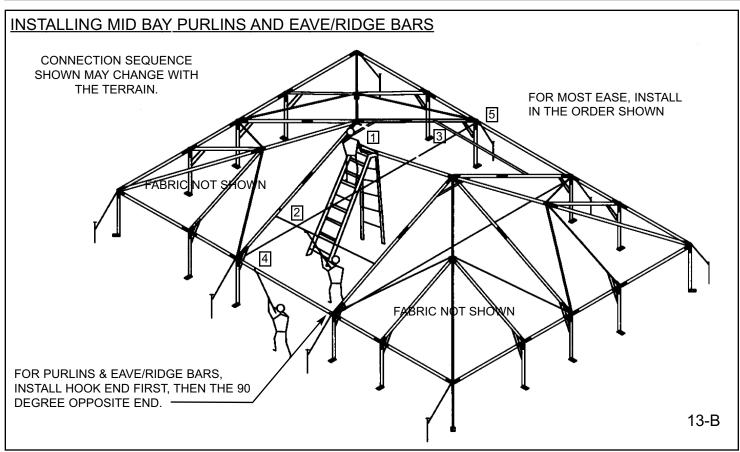
STAKING DISCLAIMER: DUE TO VARYING SOIL CONDITIONS AT EACH INSTALLATION SITE, THE STAKES PROVIDED MAY NOT MEET THE LOADING REQUIREMENT SHOWN ON THE BLUEPRINT AND ENGINEERING ANALYSIS. IT IS THE INSTALLERS RESPONSIBILITY TO VERIFY THE SOIL CONDITIONS AND PROPER ANCHORING DEVICES REQUIRED AT EACH SITE TO ENSURE A SAFE INSTALLATION.

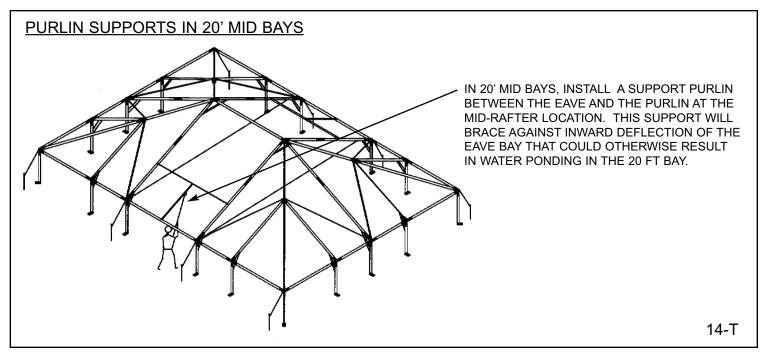


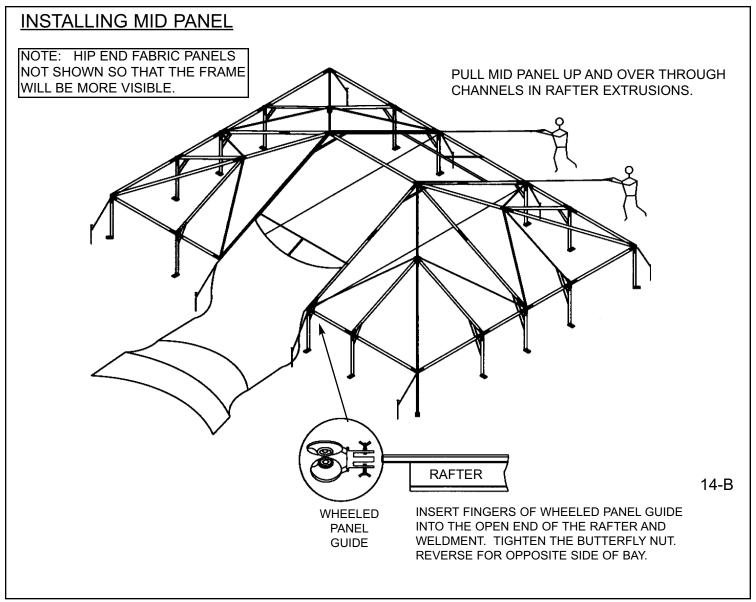


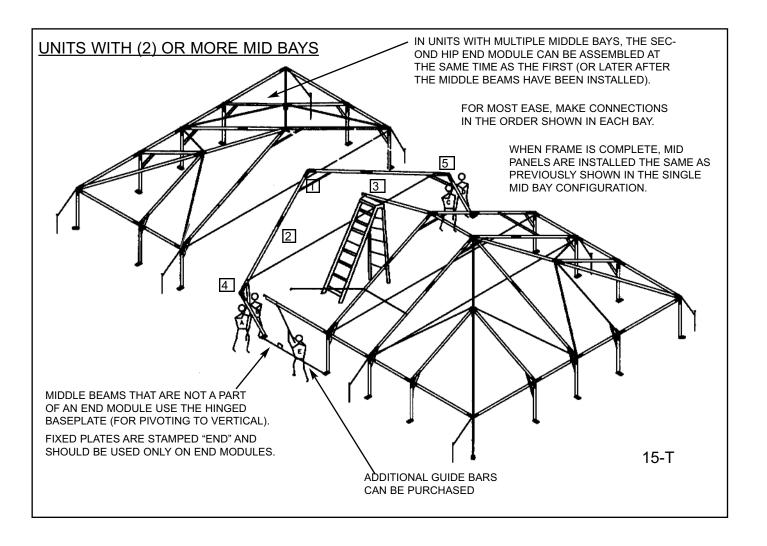


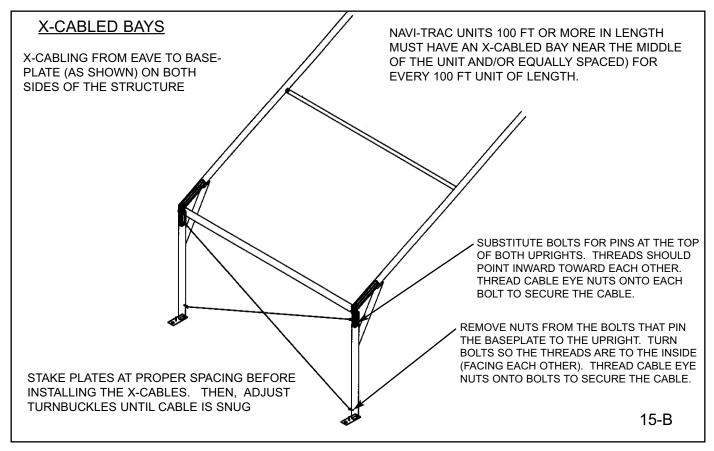


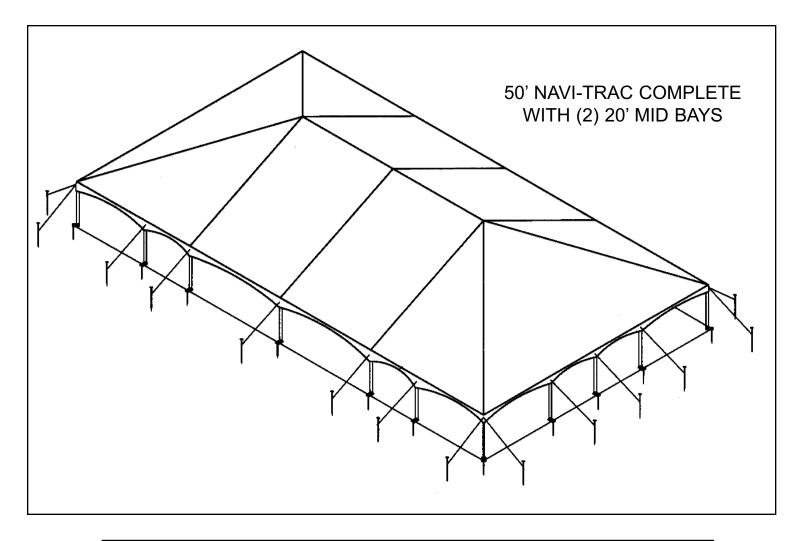












- 1. SIDEWALLS MUST BE ADDED TO COMPLETE THE UNIT (SEE BLUEPRINT INFORMATION).
- 2. INSTALL, STAKE, AND TENSION ALL GUY WEBS, AS SHOWN. TENSION FABRIC SO THAT ALL CATENARY ARCHES ARE EQUIDISTANT BELOW THE EAVE BARS.
- 3. REVIEW PAGE 11 FOR GUYING AND TENSIONING INSTRUCTIONS.



Thank you for purchasing an Anchor product. In return, we pledge Quality, Service and Craftsmanship and are available for any questions you may have or assistance you may need.

PHONE NUMBER

812-867-2421

FAX NUMBER

812-867-0547

Anchor products are of superior design and operate best within the parameters of these instructions. It is IMPERATIVE that the instructions be carefully read and **COMPLETELY FOLLOWED**. Please read installation instructions before the installation or removal of this product. Installation instructions are available at **www.anchorinc.com**.

CAUTION

- 1. For each installation, the installer is solely responsible for evaluating the site and the proper securing method determined. Some soils require different staking or securing than that provided with the tent. Due to this variety of soil conditions, these are the manufacturer's suggested sequence of installation procedures. Anchor's responsibility is limited to the construction of the tent. We are not responsible for methods that installers may choose to secure the tent to the ground.
- 2. Inasmuch as the weather is unpredictable, good judgment and common sense must be incorporated within installation guidelines. It is the responsibility of the tent Installer/maintainer to determine the severity of the weather, proper time and method of installation and/or erection and disassembly.

The structure has been manufactured to meet code requirements. For the safety of all occupants, evacuation is recommended if inclement weather occurs, or if there is any doubt concerning the safe use of this product.

- 3. Proper safety equipment should be used at all times to insure a safe installation and take down. We suggest a careful evaluation be made to determine safety equipment needed, such as hard hats, steel-toe shoes, safety glasses and other as required.
- **4**. Anchor stands behind its products in accordance with its standard Terms and Conditions of sale. A copy of our Terms and Conditions of Sale can be obtained by contacting Anchor at the telephone number and/or address on this document.